# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Improvements to roads and drain in Kodigehalli village in ward no. 8**

Estimate Cost: 1000000.00

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2014-15 | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Sqm | 2 | 87.00 | 1.70 | | 295.80 | | |
| | 6th cross road, hanumaiah badavane | Sqm | 2 | 111.00 | 1.70 | | 377.40 | | |
| | | | | | | | 673.20 | 58.32 | 39261.00 |
| | Basic Rate | 54.00 | | | | | | | |
| | Area Weightage @ 8% | 4.32 | | | | | | | |
| | Total | 58.32 | | | | | | | |
| 2 | Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2014-15 | | | | | | | | |
| | 95 % of the quantity vide item No. 1 | Sqm | Qty Vide Item No. 1 | | | | 639.54 | 75.60 | 48349.00 |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @ 8% | 5.60 | | | | | | | |
| | Total | 75.60 | | | | | | | |
| 3 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (10.0 cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2014-15.) | | | | | | | | |
| | Balance qty vide item No. 1 & 2 | sqm | | | | | 33.66 | 704.16 | 23702.00 |
| | Basic Rate Rs. | 652.00 | | | | | | | |
| | Add 8% A.W Rs. | 52.16 | | | | | | | |
| | Total Rate Rs. | 704.16 | | | | | | | |
| 4 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15<br>drain desilting | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Cum | 2 | 87.00 | 0.50 | 0.50 | 43.50 | | |
| | 6th cross road, hanumaiah badavane | Cum | 2 | 111.00 | 0.50 | 0.50 | 55.50 | | |
| | | | | | | | 99.00 | 75.60 | 7484.00 |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @8% | 5.60 | | | | | | | |
| | Total | 75.60 | | | | | | | |
| 5 | KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 157 / Item No. 21.3 / PWD SR 2014-15 | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Sqm | 1 | 51.00 | 4.50 | | 229.50 | | |
| | | | | | | | 229.50 | 82.94 | 19036.00 |
| | Basic Rate | 76.80 | | | | | | | |
| | Area Weightage @ 8% | 6.14 | | | | | | | |
| | Total | 82.94 | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 6 | Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications Page No. 154 / Item No. 20.18 PWD SR - 2014-15. | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Cum | 1 | 51.00 | 4.50 | 0.20 | 45.90 | | |
| | | | | | | | 45.90 | 1438.56 | 66030.00 |
| | Basic Rate | 1332.00 | | | | | | | |
| | Area Weightage @ 8% | 106.56 | | | | | | | |
| | Total | 1438.56 | | | | | | | |
| 7 | KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 P. 157 / I. 21.1 PWDSR 2014-15 | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Sqm | 1 | 51.00 | 4.50 | | 229.50 | | |
| | | | | | | | 229.50 | 12.20 | 2801.00 |
| | Basic Rate | 11.30 | | | | | | | |
| | Area Weightage @ 8% | 0.90 | | | | | | | |
| | Total | 12.20 | | | | | | | |
| 8 | KSRRB M500-6: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, Page No. 157 / Item No. 21.5 / PWD SR 2014-15 | | | | | | | | |
| | | | Qty Vide Item No. 7 | | | | 229.50 | 74.52 | 17102.00 |
| | Basic Rate | 69.00 | | | | | | | |
| | Area Weightage @ 8% | 5.52 | | | | | | | |
| | Total | 74.52 | | | | | | | |
| 9 | KSRRB 500-1.2 : Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries compelte as per specifications. (P. 157 / I. 21.2 PWDSR 2014-15) | | | | | | | | |
| | 5th cross road, hanumaiah badavane | sqm | 1 | 36.00 | 4.50 | | 162.00 | | |
| | 6th cross road, hanumaiah badavane | sqm | 1 | 111.00 | 5.00 | | 555.00 | | |
| | | | | | | | 717.00 | 3.02 | 2168.00 |
| | Basic Rate | 2.80 | | | | | | | |
| | Area Weightage @ 8% | 0.22 | | | | | | | |
| | Total | 3.02 | | | | | | | |
| 10 | KSRRB M500-7: Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. (Page No. 157 / Item No. 21.7 / PWD SR 2014-15) | | | | | | | | |
| | Qty vide item No. 9 | sqm | | | | | 717.00 | 18.74 | 13435.00 |
| | Basic Rate | 17.35 | | | | | | | |
| | Area Weightage @ 8% | 1.39 | | | | | | | |
| | Total | 18.74 | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 11 | KSRRB M500-18: Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15 | | | | | | | | |
| | 5th cross road, hanumaiah badavane | Cum | 1 | 87.00 | 4.50 | 0.025 | 9.79 | | |
| | 6th cross road, hanumaiah badavane | Cum | 1 | 111.00 | 5.00 | 0.025 | 13.88 | | |
| | | | | | | | 23.66 | | |
| | Consider 10% For Depression Filling | | | | | | 2.37 | | |
| | | | | | | | 26.03 | 11070.00 | 288138.00 |
| | Basic Rate | 10250.00 | | | | | | | |
| | Area Weightage @ 8% | 820.00 | | | | | | | |
| | Total | 11070.00 | | | | | | | |
| 12 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 178, Item No. 24.15 SR 2014-15) | | | | | | | | |
| | 5th cross road, hanumaiah badavane | sqm | 2 | 87.00 | 0.10 | | 17.40 | | |
| | 6th cross road, hanumaiah badavane | sqm | 2 | 111.00 | 0.10 | | 22.20 | | |
| | | | | | | | 39.60 | 475.20 | 18818.00 |
| | Basic Rate Rs. | 440.00 | | | | | | | |
| | Add 8% A.W Rs. | 35.20 | | | | | | | |
| | Total Rate Rs. | 475.20 | | | | | | | |
| 13 | Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materilas, labour charges, scaffolding, curing complete as per specifications. (PWDSR 2014-15, I. 5.27, P. 25) | | | | | | | | |
| | 5th cross road, hanumaiah badavane | sqm | 2 | 87.00 | | 0.200 | 34.80 | | |
| | 6th cross road, hanumaiah badavane | sqm | 2 | 111.00 | | 0.200 | 44.40 | | |
| | | | | | | | 79.20 | 993.60 | 78693.00 |
| | Basic Rate | 920.00 | | | | | | | |
| | Area Weightage @8% | 73.60 | | | | | | | |
| | Total | 993.60 | | | | | | | |
| 14 | Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed) | | | | | | | | |
| | 5th cross road, hanumaiah badavane | sqm | 2 | 87.00 | 0.60 | | 104.40 | | |
| | 6th cross road, hanumaiah badavane | sqm | 2 | 111.00 | 0.60 | | 133.20 | | |
| | | | | | | | **237.60** | 1489.00 | 353786.00 |
| | Data Rate | 1856.67 | | | | | | | |
| 15 | Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km ( Page No.123) | | | | | | | | |
| | | | | Vide Item No. 1 | | | 99.00 | 73.57 | 7283.00 |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12 | 5.12 | | | | | | | |
| | Add loading and unloading charges Vide item no.17.1 P.no.130 | 63.00 | | | | | | | |
| | | 68.12 | | | | | | | |
| | Area Weightage @ 8% | 5.45 | | | | | | | |
| | Total | 73.57 | | | | | | | |
| 16 | Sub Total | | | | | | | | 986086.00 |
| 17 | For Third Part QC inspection Charges @ 1% of Estimate Cost | | | | | | | | 9861.00 |
| 18 | Miscellaneous and other Charges | L/S | | | | | | | 4053.00 |
| | | | | | | | | Total | 1000000.00 |

(Rs. Ten Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 8

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Administrative approval for Rs. 10.00L
Ten lakhs only
is accorded under ...
registered as ... 28 ... Subject
to conditions contained enclosed memo.
No: ... / 151 Dr. 21/01/15
AE/JE 21/01
EE (BTP. Div.)

Technical Sanction for Rs. 10.00L
Ten lakhs only
Registered as EE No: 60 Dated ... Subject
to conditions contained enclosed memo.
No: ... / 358 Dr. 11/02/15
AE/JE 11/02
EE (BTP.DIV.)